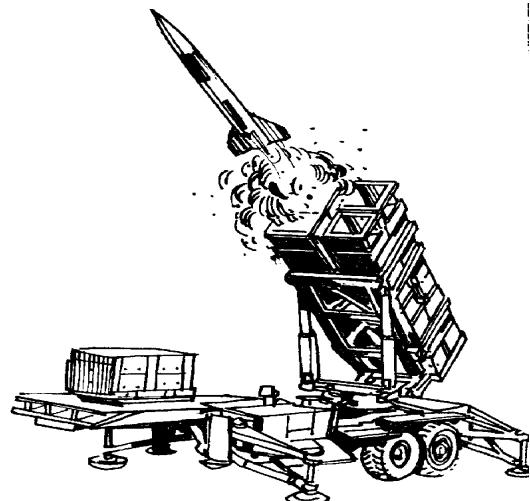
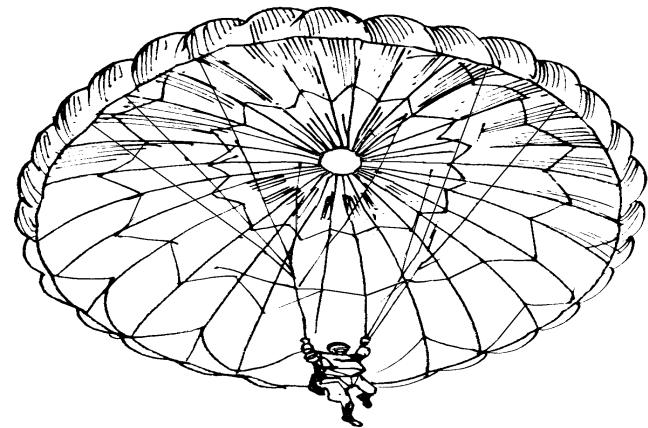
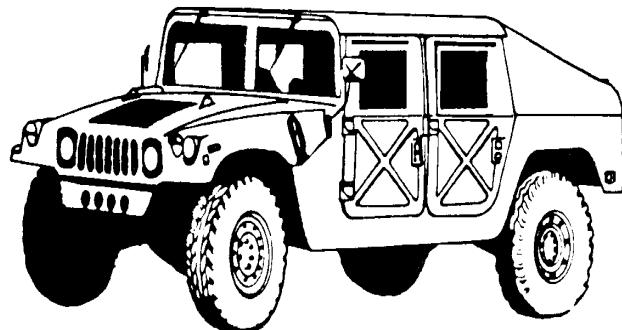




# MAINTENANCE OPERATIONS





# **MAINTENANCE SYSTEM FOUR LEVELS**



- **Unit Level ----- 10/20 Level**
- **Direct Support ----- 30 Level**
- **General Support ----- 40 Level**
- **Depot---System Overhaul Level**



# MAINTENANCE XXI



**UNIT**

**DIRECT SPT**

**GENERAL SPT**

**DEPOT**





# MAINTENANCE FUNCTIONS

- ***INSPECT***
- ***TEST***
- ***SERVICE***
- ***ADJUST/ALIGN***
- ***CALIBRATE***
- ***REMOVE/INSTALL***
- ***REPLACE***
- ***REPAIR***
- ***OVERHAUL***
- ***REBUILD***



# **ARMY OIL ANALYSIS PROGRAM**



- **A condition monitoring program**
- **Detects potential equipment component failure**
- **Identifies lubricant condition**
- **Improves equipment reliability and readiness**



# **AOAP SPECIAL SAMPLES**



- At the request of the laboratory.
- Immediately before transfer among commands or overseas deployment of equipment.
- After maintenance, overhaul, or replacement of a component



# **AOAP SPECIAL SAMPLES, cont.**



- After indication of a problem, for example, overheating, excessive oil loss, or loss of oil pressure.
- After indication of contamination that is cloudy, sludge, M60A1 Tank water, excessively dirty, visible metal particles.



# **ARMY OPERATOR LICENSING**



- [http://  
safety.army.mil/pages/pov/drivertr  
aining.html](http://safety.army.mil/pages/pov/drivertraining.html)  
/
- Must have state license
- CO is issuing officer
- Valid for 4 years



# **RECOVERY AND BATTLEFIELD DAMAGE ASSESSMENT AND REPAIR**



- Recovery-procedure that retrieves or frees immobile or inoperative vehicles by towing, lifting and winching.
- BDAR-Any action taken to return disabled equipment rapidly to the operational commander during combat - “Jury-Rigging.”



# **BDAR**



- Done in combat/Trained in Peacetime
- Standard Maintenance is always the first choice--decision based on parts availability and METT-T
- BDAR kits should be in each vehicle



## ***BDAR (cont)***



- Assess before attempting repair
- Perform only needed repairs--cosmetic repairs are unnecessary
- Senior man present decides when and if to perform BDAR



# **BDAR SAFETY**



- Check for fuel/oil spills, damaged cables and wires, and live/loaded ammo.
- Check for chemical contamination if necessary.
- Maintain high alert for booby traps on abandoned equipment.
- Do not operate until you make a full assessment.



# **RECOVERY METHODS**



- Self Recovery
- Like Recovery
- Dedicated Vehicle Recovery



# ***REASONS FOR RECOVERY***



- Repair Damaged Equipment
- Retrieve Abandoned Equipment
- Prevent Enemy Capture of Equipment
- Obtain Intelligence Information



# **MANAGING RECOVERY ASSETS**



- Centrally Managed
- Priority of Recovery
- Coordinate with Maintenance Effort
- Return to Unit Maintenance Collection Point (UMCP)



# **RECOVERY SAFETY**



- Follow Safe Rigging Guidelines
- Don't overload ground shocks and anchoring spades
- Use extreme caution while towing--use brake vehicle if necessary
- Be careful around all suspended loads
- Allow only the minimum required personnel in the area



# ***TYPES OF MAINTENANCE PUBLICATIONS***



- Army Regulations
- Department of the Army Pamphlets
- Technical Manuals ( TMs )
- Technical Bulletins ( TBs )
- Supply Bulletins/Circulars  
( SBs/SCs )
- Lubrication Orders ( LOs )
- Modification Work Orders ( MWOs )



# **TYPES OF TAMMS RECORDS**



- Operational Records
- Maintenance Records
- Historical Records



# **ULLS GENERATED FORMS**



## **MANUAL**

- DA FORM 5823
- DD FM 1970
- DA FM 2401
- DD FM 314
- DA FM 2404
- DA FM 2407
- DA FM 2408-14

## **AUTOMATED**

- NOT REQUIRED
- DA FM 5987-E
- DA FM 5982-E
- DA FM 5986-E
- DA FM 5988-E
- DA FM 5990-E
- DA FM 5988-E



# **DA FORM 5823**

## **EQUIPMENT IDENTIFICATION CARD**



### **PURPOSE:**

- TIES A PARTICULAR EQUIPMENT RECORD TO AN ITEM OF EQUIPMENT.

### **USE:**

- THE DISPATCHER AND OPERATOR USE IT TO KEEP UP WITH SERVICES AND TO MAKE SURE THEY ISSUE THE RIGHT FOLDER.

### **DISPOSITION:**

- REPLACE WHEN IT IS NO LONGER READABLE.



# **DA FORM 2401/5982-E**

# **DISPATCH CONTROL LOG**



## **PURPOSE:**

- A RECORD OF OPERATORS AND LOCATION OF EQUIPMENT ON DISPATCH OR IN USE.

## **USE:**

- DISPATCHERS NOTE THE DISPATCH OR USE OF EQUIPMENT.

## **DISPOSITION:**

- DESTROY ONE MONTH AFTER YOU CLOSING OUT THE LAST ENTRY IN COLUMN ONE.



# **DA FORM 2404/5988-E**

## **EQUIPMENT INSPECTION/MAINTENANCE**

### **WORKSHEET**



#### **PURPOSE:**

- IT IS THE CENTRAL RECORD FOR MANAGING AND CONTROLLING MAINTENANCE .

#### **USE:**

- USED BY PERSONNEL PERFORMING INSPECTIONS, MAINTENANCE SERVICES, DIAGNOSTICS CHECKS, AND SPOT CHECKS.

#### **DISPOSITION:**

- KEPT IN THE EQUIPMENT RECORD FOLDER OR PROTECTED COVER UNTIL COMPLETED IF YOU HAVE FOUND NO FAULTS.



# **DD FORM 314/DA FORM 5986-E**

## **PREVENTIVE MAINTENANCE SCHEDULE AND RECORD**



### **PURPOSE:**

- IS A RECORD OF SCHEDULED AND PERFORMED UNIT MAINTENANCE INCLUDING LUBRICATION SERVICES.

### **USE:**

- SCHEDULE PERIODIC SERVICES ON EQUIPMENT.

### **DISPOSITION:**

- DESTROY AFTER TRANSFERRING NEEDED INFORMATION TO A NEW FORM.
- DESTROY WHEN YOU SEND THE EQUIPMENT TO SALVAGE.



# **DD FORM 1970/5987-E**

## **MOTOR EQUIPMENT UTILIZATION**

### **RECORD**



#### **PURPOSE:**

- A RECORD OF MOTOR EQUIPMENT USE

#### **USE:**

- CONTROL THE USE OF SPECIAL PURPOSE AND MATERIAL HANDLING EQUIPMENT, COMBAT, TACTICAL, AND NON-TACTICAL VEHICLES
- RECORD OPERATING TIME ON EQUIPMENT THAT REQUIRES SERVICES BASED ON HOURS ONLY

#### **DISPOSITION:**

- VARIES, SITUATIONAL



# **DA FORM 2026/5991**

## **OIL ANALYSIS REQUEST**



- USED TO ORDER TEST OR SERIES OF TESTS
- COMPLETE THE FORM FOR EACH SAMPLE REQUESTED
- LAB INDICATES TESTING RESULTS ON THE FORM



# **DA FORM5984-E**

# **OPERATORS PERMIT RECORD**



- REPLACES OF 346.
- PROVIDES VERIFICATION OF LICENSING FOR THE OPERATOR.



# **CATEGORIES OF MAINTENANCE IN ULLS-G**



- Operational Processes
- Equipment Data Update
- Equipment Data Reports
- Maintenance Support Functions
- The Army Materiel Status System



# **MAINTENANCE MANAGEMENT TOOLS**



- Readiness Reports
  - DA Form 2406
  - Non-Mission Capable Report
  - Equipment Maintenance and Inspection Worksheet
  - Service Schedule Due
- Prescribed Load List (PLL)